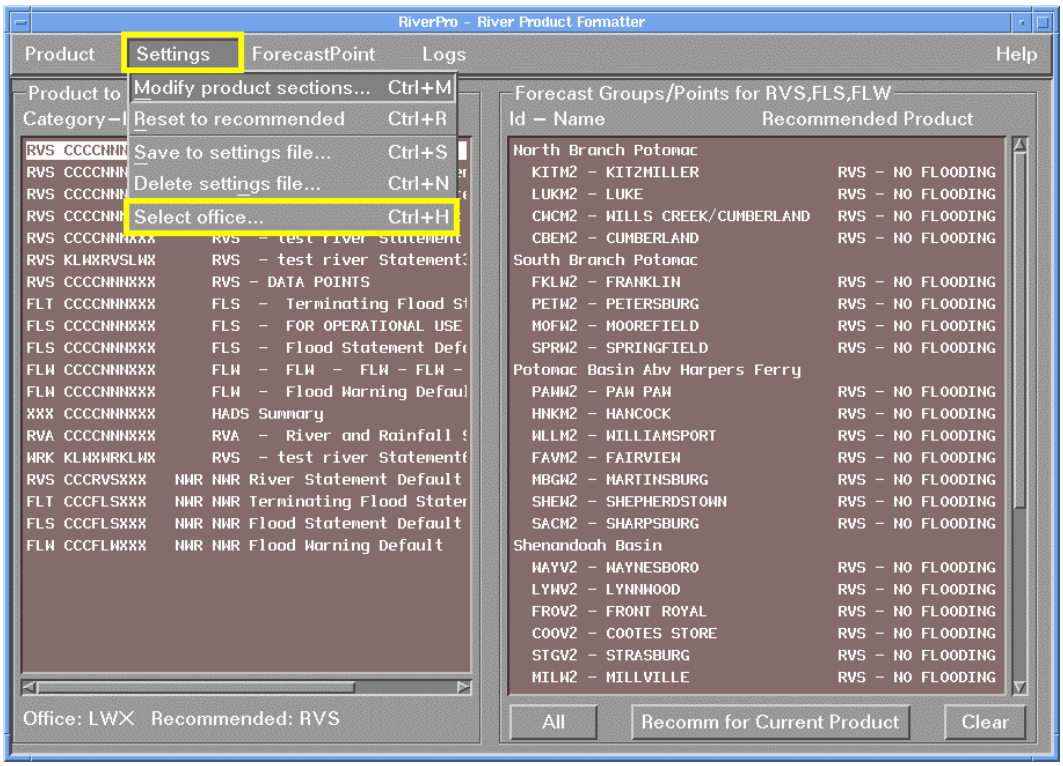
RiverPro Service Backup Feature (version 5.1.2)

In Build 5.1.2, the ability of RiverPro to operate in a service backup mode was implemented. When the program is first started, RiverPro only considers the forecast points and settings (template and definition files) particular to the "host" office. The host office is defined by the station id in the Administration database in HydroBase under Setup. It should already be defined for each installation, as this value is defined when the WHFS software was first installed. If the value is wrong, the service backup feature will not function properly (see Troubleshooting).

RiverPro operates for one office at a time. To switch to another office the user can access this display from the **Root Window** in RiverPro by clicking on the **Settings** pull down menu. Click on **Select office...**.



After selecting an office, the program clears itself of all information related to the prior office's forecast points and settings, and loads in the new forecast points and settings. RiverPro operates in a single-office mode, there is no mixing of locations from different offices. RiverPro is different from other WHFS programs in that the office designation for a given location is based on its HSA (Hydrologic Service Area), not its WFO (Weather Forecasting Office) designation.

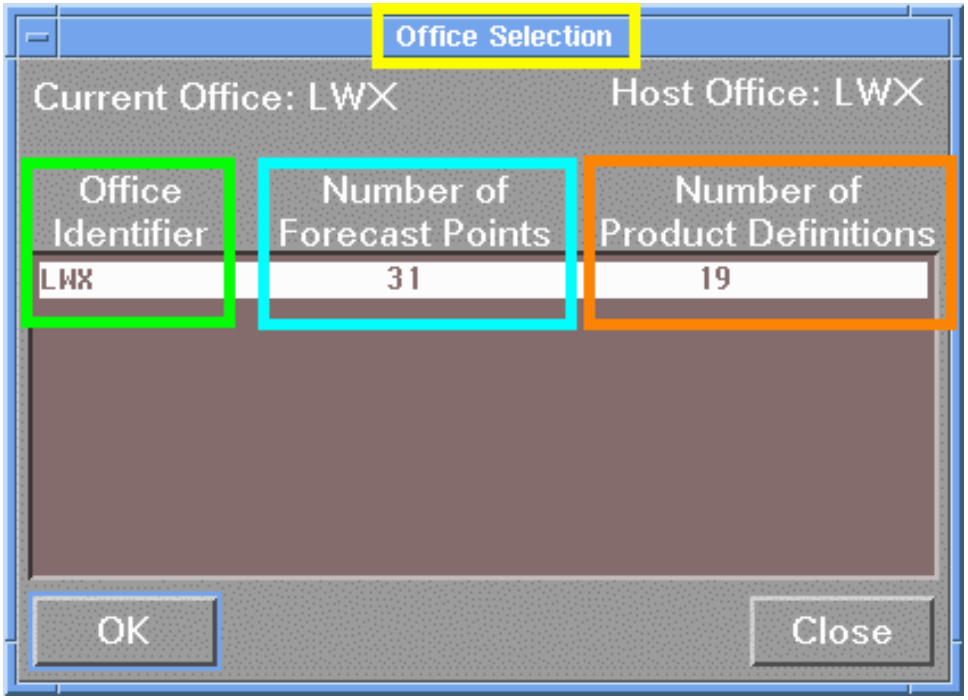
Whether the user is starting the program or the user has chosen the Select Office option, RiverPro will only consider an office if the following three criteria are met:

1) At least one forecast point is defined which has an HSA field value that matches the current selected HSA.

2) The eight template files (.tpl) are defined for the office. The files must have the HSA suffix at the end of their name. An example: header.tpl.CCC, where CCC is the 3-character site id.

3) A minimum of 4 definition files (.pcc) are defined for the office. The files must have the HSA suffix at the end of their name. An example: rvs_def.pcc.CCC, where CCC is the 3-character site id. The four definition files that must exist are the default files for each of the four possibly recommended products. **These four files are rvs_def.pcc.CCC, flt_def.pcc.CCC, fls_def.pcc.CCC, and flw_def.pcc.CCC.** The user can add more definition files, but must remember to add the HSA suffix at the end of the file.

If any one of these criteria is not met, that office will not be available for selection within RiverPro. In the **Office Selection** display (see below) the user will see the current office's site id that RiverPro is running on and the host office's site id. The **Office Identifier** in the table will allow the user to select an office (host, primary, or secondary) by highlighting a row. The **Number of Forecast Points** reads all the HSA forecast points for each location. There must be at least one forecast point for each office. Last, is the **Number of Product Definitions**. This column reads all the .pcc files which are the definition files. There must be at least the four default files for each office.



Adding a New Office

In adding a new office in RiverPro for backup the user needs to create a series of .tpl and .pcc files for each WFO that is needed as a primary and secondary backup. The user needs to go into the following directory: **/awips/hydroapps/whfs/local/data/app/riverpro**

The install will copy all the .tpl and .pcc files to .tpl.CCC and .pcc.CCC files, where CCC is the 3-character site id for the host office. From there the user needs to make copies of all eight .tpl.CCC files and all the .pcc.CCC files for each WFO backup site and change the suffix to the appropriate HSA 3-character site id.

For example:

- Before LWX installed 5.1.2 a .tpl file would have looked like this **header.tpl** and a .pcc file like this **rvs_def.pcc**.

- When 5.1.2 is installed the system will automatically change the **header.tpl** to **header.tpl.LWX**. The **rvs_def.pcc** will change as well to **rvs_def.pcc.LWX**. This is true with all eight .tpl files and all .pcc files.

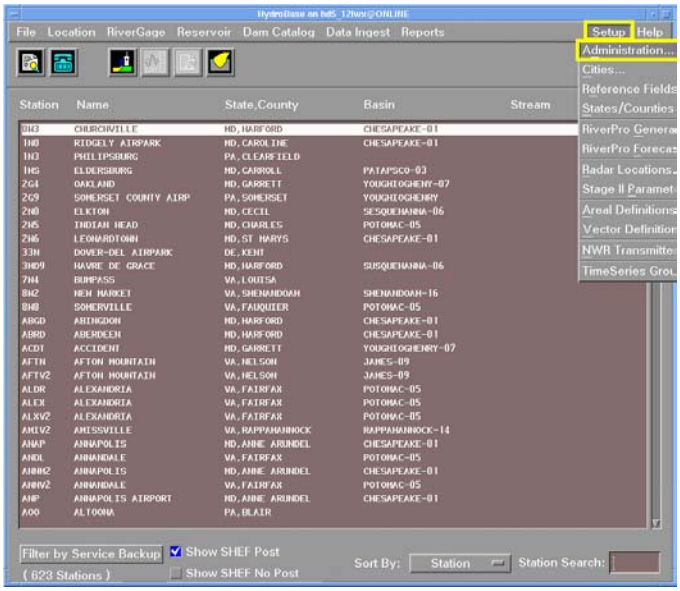
- Then the user will have to copy **header.tpl.LWX** and change the suffix to a backup HSA site id, like **header.tpl.PHI**. The same with **rvs_def.pcc.LWX** the user will have to copy and change the suffix to **rvs_def.pcc.PHI.**

- Make sure all four .pcc files are in existence for RiverPro to run. And of course the user will have to add the appropriate suffix. They are:
  flw_def.pcc
  fls_def.pcc
  rvs_def.pcc
  flt_def.pcc

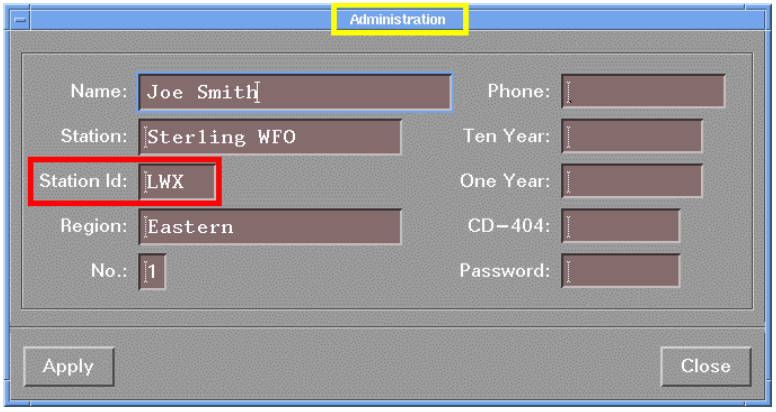
Remember for each new office, the user will have to copy and change the suffix to reflect that new HSA. For example if LWX adds primary and secondary offices then there should be a total of 24 .tpl files with each reflecting eight files for each office (host, primary, and secondary). The same goes for the .pcc files. There will be at least four files for each office and then any extra ones the user has made in the past.

Troubleshooting

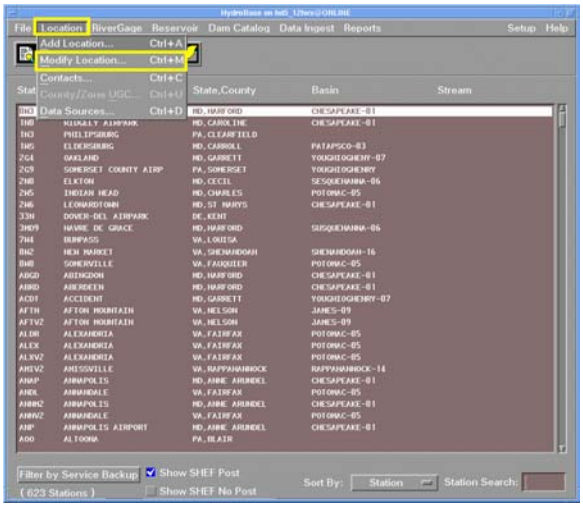
1) When RiverPro first starts, it will operate as the host office. It will determine the host office from the station id field in the Administration (Admin) table. **Check to make sure the Admin table has its modernized 3-character site id**. The user can access this display from the **Root Window** in HydroBase by clicking on the **Setup** pull down menu. Click on **Administration**.



The default is for RiverPro to come up as the WFO defined in the **Administration** table (see below). If there is a mis-match between the **Station Id** field in the Admin table (example "old" 3-character station id) and the HSA attribute in the Modify Location window (example "new" 3-character station id), RiverPro will abort upon start up with the message that there are no forecast points defined. The HSA attribute in the Modify Location window will be discussed next.



2) Another spot that the user must be aware of are the **HSA attributes in the Modify Location** window for each forecast point. The user can access this display from the **Root Window** in HydroBase by clicking on the **Location** pull down menu. Click on **Modify Location**.



In the **Modify Location** window the user must have **HSA** field reflect the **modernized 3-character site id** for each office. This is important for RiverPro to run correctly because **at least one forecast point must be identified for each WFO site** (host, primary, and secondary).